

CLAIMS

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- 2
- 3 **1.** A hardware upgrade for a terminal for use with a television program delivery system,
- 4 the hardware upgrade comprising:- 5 an interface to the terminal; and
- 6 a disc storage device connected to the interface.
- 7
- 8 **2.** The hardware upgrade of claim **1** wherein data stored on the disc storage device
- 9 concerns one or more applications selected from a group consisting of games, education,
- 10 encyclopedias, reference, and economics.
- 11
- 12 **3.** The hardware upgrade of claim **1** further comprising a microprocessor connected
- 13 between the interface and the disc storage device.
- 14
- 15 **4.** The hardware upgrade of claim **3** further comprising programming instructions that
- 16 execute on the microprocessor, wherein the programming instructions access data stored on
- 17 the disc storage device.
- 18
- 19 **5.** The hardware upgrade of claim **4** wherein the interface to the terminal transfers, to the
- 20 hardware upgrade, information concerning television programs, and the programming
- 21 instructions comprise:- 22 programming instructions to monitor the information concerning television programs;
- 23 and
- 24 programming instructions to retrieve data stored on the disc storage device in response
- 25 to the information concerning television programs.
- 26
- 27 **6.** The hardware upgrade of claim **1** wherein the interface to the terminal comprises a
- 28 multipin connector.
- 29

1 **7.** The hardware upgrade of claim 6 wherein the multipin connector is a multipin
2 connector ranging from type DB9 to type DB25.

3
4 **8.** The hardware upgrade of claim 1 wherein the interface to the terminal comprises a
5 SCSI connector.

6
7 **9.** The hardware upgrade of claim 1 wherein the disc storage device is a compact disc
8 storage device.

9
10 **10.** The hardware upgrade of claim 9 wherein the compact disc storage device is a CD-
11 ROM device.

12
13 **11.** A terminal for use with a television program delivery system, the terminal comprising:
14 a receiver adapted to receive programs; and
15 a first hardware upgrade comprising:
16 an interface to the terminal; and
17 a disc storage device connected to the interface.

18
19 **12.** The terminal of claim 11 further comprising a display that indicates when the first
20 hardware upgrade is in use.

21
22 **13.** The terminal of claim 11 wherein the terminal has an expansion card slot, and wherein
23 the interface comprises at least one card connector adapted for use with the expansion card
24 slot.

25
26 **14.** The terminal of claim 11 wherein the terminal is a set top terminal.

27
28 **15.** The terminal of claim 11 wherein the terminal is an HDTV terminal.

1 **16.** The terminal of claim **11** further comprising:

2 one or more additional hardware upgrades connected to the terminal.

3
4 **17.** The terminal of claim **16** wherein the first hardware upgrade and the one or more
5 additional hardware upgrades are connected in a daisy-chain arrangement.

6
7 **18.** The terminal of claim **17** wherein each of the first hardware upgrade and the one or
8 more additional hardware upgrades comprises a SCSI connector, and the daisy-chain
9 arrangement is a SCSI daisy-chain arrangement.

10
11 **19.** The terminal of claim **16** wherein the first hardware upgrade and the one or more
12 additional hardware upgrades are capable of operating simultaneously.

13
14 **20.** The terminal of claim **16** wherein at least one of the one or more additional hardware
15 upgrades is selected from the group consisting of an audio program reception hardware
16 upgrade, an interactive hardware upgrade that receives interactive subscriber input and
17 produces interactive output, and a modem hardware upgrade.

18
19 **21.** The terminal of claim **11** wherein the disc storage device is a compact disc storage
20 device.

21
22 **22.** The terminal of claim **21** wherein the compact disc storage device is a CD-ROM
23 device.

24
25 **23.** A system comprising:
26 a television program delivery system adapted to deliver television program signals;
27 and
28 a terminal comprising:
29 a receiver adapted to receive the television program signals; and

1 a hardware upgrade comprising:
2 an interface to the terminal; and
3 a disc storage device connected to the interface.
4

5 **24.** The system of claim **23** wherein the television program delivery system is a cable
6 television program delivery system.
7

8 **25.** The system of claim **24** wherein the cable television program delivery system
9 comprises an operations center, the operations center transmitting one or more of the
10 programs to the terminal.
11

12 **26.** The system of claim **24** wherein the cable television program delivery system
13 comprises one or more headends, a particular one of the one or more headends transmitting
14 one or more of the programs to the terminal.
15

16 **27.** The system of claim **23** wherein the television program delivery system is a satellite
17 broadcast system.
18

19 **28.** The system of claim **23** wherein the terminal is an HDTV terminal.
20

21 **29.** The terminal of claim **23** wherein the disc storage device is a compact disc storage
22 device.
23

24 **30.** The terminal of claim **29** wherein the compact disc storage device is a CD-ROM
25 device.
26

27 **31/32.** A television terminal comprising:
28 a television program receiver;
29 a disc storage device; and

an output connected to the receiver and the storage device, wherein the output accepts television program signals from the receiver and data signals from the storage device.

³²
~~33~~. The television terminal of claim 32 wherein the output is a video display.

³³
~~34~~. The television terminal of claim 32 wherein the output is a connector port.

³⁴
~~35~~. The television terminal of claim 32 wherein data stored on the disc storage device concerns one or more applications selected from a group consisting of games, education, encyclopedias, reference, and economics.

³⁵
~~36~~. The television terminal of claim 32 further comprising a microprocessor connected to the disc storage device.

³⁶
~~37~~. The television terminal of claim 36 further comprising programming instructions that execute on the microprocessor, wherein the programming instructions access data stored on the disc storage device.

³⁷
~~38~~. The television terminal of claim 37 wherein the interface to the terminal transfers, to the hardware upgrade, information concerning television programs, and the programming instructions comprise:

programming instructions to monitor the information concerning television programs;
and
programming instructions to retrieve data stored on the disc storage device in response to the information concerning television programs.

³⁸
~~39~~. The television terminal of claim 32 wherein the television terminal is an HDTV terminal.

1 ³⁹~~40~~. The television terminal of claim 23 wherein the disc storage device is a compact disc
2 storage device.

3
4 ⁴⁰~~41~~. The television terminal of claim 40 wherein the compact disc storage device is a CD-
5 ROM device.

6
7 ⁴¹~~42~~. A method comprising:
8 receiving a television program;
9 accessing data using a disc storage device; and
10 displaying the television program and/or information based on the accessed data.

11
12 ⁴²~~43~~. The method of claim 42 wherein the disc storage device is a CD-ROM.

13
14 ⁴³~~44~~. The method of claim 42 further comprising:
15 processing the data stored on the disc storage device.

16
17 ⁴⁴~~45~~. The method of claim 42 wherein the accessed data concerns one or more applications
18 selected from a group consisting of games, education, encyclopedias, reference, and
19 economics.

20
21 ⁴⁵~~46~~. The method of claim 42 wherein the accessing step is performed in response to
22 receiving the television program.

23
24 ⁴⁶~~48~~. The method of claim 42 further comprising:
25 receiving information concerning programs;
26 monitoring the information concerning programs; and
27 wherein the accessing step is performed in response to the monitoring step.

28

1 ⁴⁷~~49~~. The method of claim 48 wherein the information concerning programs is received in a
2 vertical blanking interval.

3
4 ⁴⁸~~50~~. The method of claim 48 wherein the information concerning programs is received in a
5 program control information signal.

6
7 ⁴⁹~~51~~. The method of claim 42 further comprising:
8 receiving subscriber input;

9
10 ⁵⁰~~52~~. The method of claim 51 further comprising:
11 remotely receiving the subscriber input.

12
13 ⁵¹~~53~~. The method of claim 51 further comprising:
14 generating a menu on a television;
15 receiving menu selections from one or more menus, wherein the subscriber input
16 comprises menu selections.

17
18 ⁵²~~54~~. The method of claim 51 wherein the accessing step is performed in response to
19 receiving the subscriber input.

20
21 ⁵³~~55~~. The method of claim 42 wherein the disc storage device is a compact disc storage
22 device.

23
24 ⁵⁴~~56~~. The method of claim 55 wherein the compact disc storage device is a CD-ROM
25 device.